

REMARKS

Claims 1, 3-6, 9, 11-15 and 17-23 are pending. Claims 1, 3-6, 9, 11-15 and 17-23 stand rejected.

Claim 1 recites, in part, “wherein said means applies a first portion of a second de-interleaving pattern as data is written to the memory buffer, and wherein said means applies a second portion of said second de-interleaving pattern as data is read from the memory buffer”.

Applicant respectfully submits that even if, *for the sake of argument only*, the Examiner has provided documents that allegedly teach each and every element as set forth in the claims such as, for example, claim 1, the inquiry does not end there. Allegedly teaching each and every element is but one criterion in presenting a *prima facie* case of obviousness.

As the Examiner pointed out early in the prosecution of the present application, Shiu describes that the second de-interleaving 252 is completely accomplished by writing the symbols to buffer 512 in a permuted order that is complementary to that performed for the second interleaving 238. See, e.g., col. 13, lines 61-41 and FIG. 2B of Shiu.

If the second de-interleaving 252 of Shiu is completely accomplished in the writing of the symbols to buffer 512, then (in view of the second de-interleaving 252 of Shiu) why would one of ordinary skill in the art do any more?

In view of Shiu, why would one of ordinary skill in the art add extra circuitry and/or unnecessary process/operation steps to the second de-interleaving 252 described in Shiu when the second de-interleaving 262 is already completely finished via a single step of writing the symbols to buffer 512 in a permuted order?

In view of Shiu, there is no motivation to perform “wherein said means applies a second portion of said second de-interleaving pattern as data is read from the memory buffer” since Shiu has already completely finished the second de-interleaving 252 in the single step of writing the symbols to buffer 512 in a permuted order.

Does one of ordinary skill in the art add extra operation/process steps and/or unnecessary circuitry to the second de-interleaving 252 in Shiu when the second de-interleaving 252 in Shiu is already complete?

It is respectfully submitted that one of ordinary skill in the art would not consider adding extra operations or steps or unnecessary circuitry to the already completed second de-interleaving 252 of Shiu.

In view of Shiu, one of ordinary skill in the art would have accomplished the second de-interleaving 252 by the single step of writing the symbols to buffer 512 in a permuted order.

It is respectfully submitted that one of ordinary skill in the art would not add extraneous or superfluous operations or unnecessary circuitry to the second de-interleaving 262 of Shiu since Shiu already completely accomplishes the second de-interleaving 252 in a single step of writing the symbols to buffer 512 in a permuted order.


It is respectfully submitted that one of ordinary skill in the art would not have modified the already completed second de-interleaving 252 of Shiu with the alleged teachings of Delvaux.

It is respectfully submitted that the proposed modification of Shiu in view of Delvaux cannot be maintained. It is therefore respectfully submitted that the obviousness rejections be withdrawn with respect to claims 1, 3-6, 9, 11-15 and 17-23.

The Commissioner is hereby authorized to charge additional fees or credit overpayments to the deposit account of McAndrews, Held & Malloy, Account No. 13-0017.

Dated: November 14, 2006

Respectfully submitted,


Michael T. Cruz
Reg. No. 44,636

McAndrews, Held & Malloy, Ltd.
500 West Madison Street, 34th Floor
Chicago, Illinois 60661
Telephone: (312) 775-8084
Facsimile: (312) 775-8100